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## WHAT IS CLAIMED IS:

## 1. A fuel injector comprising

a valve body provided with a fuel injection hole and for opening and closing a fuel passageway between said injection hole and a valve seat provided at the upstream end of the injection hole, and

a means for driving said valve body,

wherein said fuel injector is characterized in that a restraint means for restraining the flow of a fuel is provided downstream with respect to the injection hole and outside this injection hole, in that said flow restraint means restrains the flow of the fuel in at least two places and splits the fuel into portions high in the spraying density of the injected fuel and portions low in the sprayed density of the fuel, and in that the split portions of the fuel that are high in spraying density differ from each other in terms of quantity.

20 2. A fuel injector according to Claim 1, wherein said fuel injector is characterized in that a wall surface for restraining the flow of the fuel in its radial direction is provided as said flow restraint means along, and downstream with respect to, the injection hole, in that a plurality of restraint areas for restraining the flow

of the fuel in its radial direction and a plurality of release areas for enabling the fuel to flow in its radial direction are provided, and in that said release areas differ from each other in terms of size.

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3. A fuel injector according to Claim 1, wherein said fuel injector is characterized in that a plurality of wall surfaces almost parallel to the central axis of the injection hole for limiting the flow of the injected fuel are provided as said flow restraint means, in that a plurality of limitation areas for limiting the flow of the fuel in its radial direction and a plurality of release areas for enabling the fuel to flow in its traveling direction are provided, and in that said release areas differ from each other in terms of size.

## 4. A fuel injector comprising

a valve body provided with a fuel injection hole and for opening and closing a fuel passageway between said injection hole and a valve seat provided at the upstream end of the injection hole, and

a means for driving said valve body,

wherein said fuel injector is characterized in that a wall surface almost parallel to the central axis of the injection hole is provided downstream with respect to and at the marginal portions of the injection hole so that said wall surface is positioned outside, and at the required distance from, the inner wall of the injection hole, in that a plurality of circumferential areas around the inner wall of the injection hole are provided so that the distance from said wall surface to the inner wall of the injection hole is longer than the required distance, and in that said circumferential areas differ from each other in terms of size.

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- 5. A fuel injector according to any one of Claims 1 to 4, wherein said fuel injector is characterized in that during the spraying of the fuel which has been injected from said injection hole, the density distribution of the sprayed fuel at a cross section vertical to the body axial line of the fuel injector concentrates in approximately two directions, and in that the spraying pattern of the fuel is set to ensure that the flow rate of the sprayed fuel in one of the two directions of concentration is greater than the flow rate of the fuel in the other direction.
- 6. A fuel injector according to any one of Claims 2 to 4 above, wherein said fuel injector is characterized in that more than one wall surface parallel to the central

axis of said injection hole is provided downstream with respect to the injection hole and in that at least one of said wall surfaces and the inner wall of the injection hole takes an almost abutting-angle relationship at the position closest to that wall surface.

4 above, wherein said fuel injector is characterized in that more than one wall surface parallel to the central axis of said injection hole is provided downstream with respect to the injection hole and in that at least one of said wall surfaces is positioned so that the corresponding wall surface and the inner wall of the injection hole take an almost right-angle or acute-angle relationship at the position closest to that wall surface.

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